Wouxun KG-UV6X Dual Band VHF/UHF 200 Channel Handheld Commercial Radio

User Manual

KG-UV6X

Thanks for buying the Wouxun transceiver.

This transceiver offers latest design, enhanced features, solid performances and easy accessibility. We believe you will be pleased with the high quality and reliable features for all your communication needs.

READ THIS IMPORTANT INFORMATION ON THE SAFE AND EFFICIENT OPERATION BEFORE USING Wouxun PORTABLE TRANSCEIVER. This manual is ONLY suitable for KG-UV6D.

User Safety, Training, and General Information

READ THIS IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION BEFORE USING YOUR WOUXUN PORTABLE TWO-WAY RADIO.

Compliance with RF Energy Exposure Standards

Your WOUXUN two-way radio is designed and tested to comply with a number of national and international standards and guidelines (listed below) regarding human exposure to radio frequency electromagnetic energy. This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environment at duty cycles of up to 50% talk-50% listen and should be used for occupational use only. In terms of measuring RF energy for compliance with the FCC exposure guidelines, your radio radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

NOTE ⚠

» The approved batteries supplied with this radio are rated for a 5-5-90 duty cycle (5% talk-5% listen-90% standby), even though this radio complies with the FCC occupational RF exposure limits at duty cycles of up to 50% talk.

WOUXUN Professional FM Transceiver

Your WOUXUN two-way radio Complies with the following of RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1999 Edition
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998

Operational Instructions and Training Guidelines

To ensure optimal performance and compliance with the occupational/controlled environment RF energy exposure limits in the above standards and guidelines, users should transmit no more than 50% of the time and always adhere to the following procedures:

Transmit and Receive

To transmit (talk), push the Push-To-Talk (PTT) button; to receive, release the PTT button.

Hand-held radio operation

Hold the radio in a vertical position with the microphone 5 cm away from the lips and let the antenna

farther away from your head.

Body-worn operation

Always place the radio in an Wouxun approved clip, holder, holster, case, or body harness for this product. Use of non- Wouxun -approved accessories may exceed FCC RF exposure guidelines.

Antennas & Batteries

- Use only Wouxun approved, supplied antenna or Wouxun approved replacement antenna.
- Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations.
- Use only Wouxun approved, supplied batteries or Wouxun approved replacement batteries.
- Use of non- Wouxun -approved batteries may exceed FCC RF exposure guidelines.

Approved Accessories

For a list of Wouxun approved accessories,see the accessories page of this user manual or visit the following website which lists approved accessories:http://www.wouxun.com

Notices to the User

- Government law prohibits the operation of unlicensed radio transmitters within the territories under government control.
- Illegal operation is punishable by fine or imprisonment or both.
- Refer service to qualified technicians only.

Warning ⚠

» It is important that the operator is aware of and understand hazards common to the operation of any transceiver. Explosive environment (such as gases, dust, fumes, etc). Turn off your transceiver while talking on fuel, or parking in gasoline servive stations.

» If you require this machine to be developed or get some changes, pleased contact with Wouxun or your Wouxun dealer.

FCC Caution:

This equipment has been testen and found to comply with the part 90 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipent generates, uses and can radiate radio frequency energy and, If the equipment is not installed and used in accordance with the instructions, it may cause harmful interference to radio communicationgs. However, there is no guarantee that interference will not occur in a particlar installation. If this equipment

does carse harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following.

Measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Licensing Requirements

Your radio must be properly licensed Federal Communications Commission prior to use. Your Wouxun Wireless dealer can assist you in meeting these requirements. Your dealer will program each radio with your authorized frequencies, signaling codes, etc., and will be there to meet your communications needs as your system expands.

Precautions

Only qualified technicians are allowed to maintain this product.

Do not use the radio or charge a battery in explosive areas such as coal gas, dust, steam, etc.

Switch OFF the radio while refueling or parking at a gas station.

Do not modify or adjust this radio without permission.

Do not expose the radio to direct sunlight over a long time, nor place it close to heat source.

Do not place the radio in excessively dusty, humid areas, nor on unstable surfaces.

Safety: It is important that the operator is aware of and understands hazards common to the operation of any radio.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Warning ⚠

» MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

CE Caution:

Hereby, Wouxun declares that this Two-way radio is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the DOC may be obtained through the following address.

Address: No.928 Nanhuan Road, Jiangnan High Technology Industry Park, Quanzhou, Fujian 362000, China

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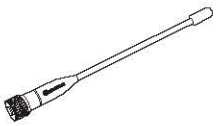
Unpacking and Checking the Equipment

Professional FM Transceiver

Carefully unpack the transceiver. We recommend that you identify the items in the following table before discarding the packing material. If any item are missing or has been damaged during shipment, please notify your WOUXUN dealer.

Supplied Accessories

Transceiver


High gain antenna

Li-ion batterypack

Intelligent charger

Beltclip

Handstrap

User's manual

Warranty card

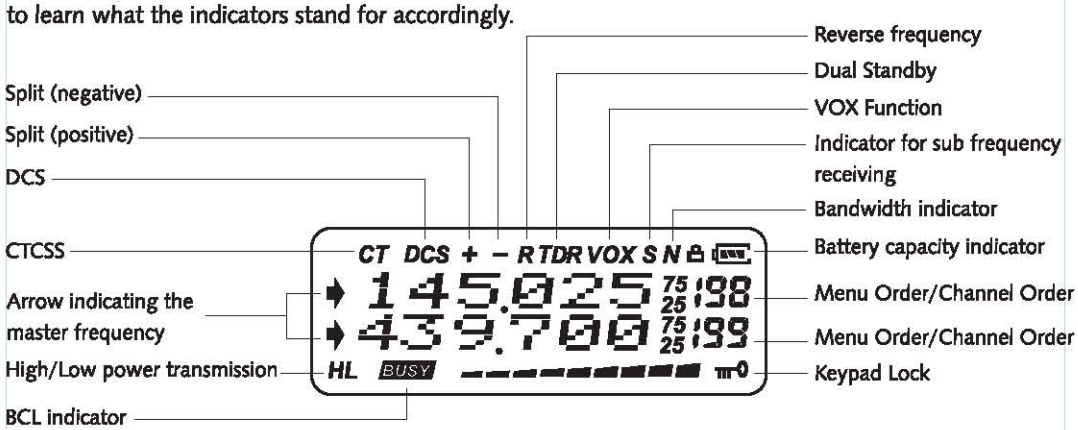
Description of Functions

1. Dual Band, Dual Frequency, Dual Display and Dual Standby
2. Frequency Range (suitable for different countries or areas):
   136-174MHz & 216-280MHz (Rx / Tx), 136-174MHz & 350-470MHz (Rx / Tx),
   136-174MHz & 400-480MHz (Rx / Tx), 136-174MHz & 420-520MHz (Rx / Tx),
   144-146MHz & 430-440MHz (Rx / Tx), 144-148MHz & 222-225MHz (Rx / Tx),
   66-88MHz & 136-174MHz (Rx / Tx), 66-88MHz & 400-480MHz (Rx / Tx).
3. Working Mode: U-V, V-V or U-U selectable
4. Channel setting: VHF Tx & UHF Rx or UHF Tx & VHF Rx selectable
5. DTMF encoding
6. Digital FM Radio (76-108MHz)
7. CTCSS/DCS scan
8. Output power: VHF(5W/4W)/UHF(4W/1W)
9. 199 memory channels
10. VOX
11. Stopwatch timer function
12. 105 groups DCS and 50 groups CTCSS
13. Voice guide
14. SOS Function
15. Wide/Narrow bandwidth selection (25KHz / 12.5KHz)
16. Multi-display modes (channel number/ channel frequency/ channel name selectable)
17. Reverse frequency

18. Multi-functional scan modes
19. Priority scan function
20. Bright flashlight illumination
21. Frequency steps selectable (2.5/5/6.25/10/12.5/25/50/100KHz)
22. High/Low power changeable when transmitting
23. 1700mAh High capacity Li-ion batterypack
24. Intelligent charger
25. Offset frequency setting (0-69.975MHz)
26. Frequency shift direction setting
27. Busy channel lockout
28. Power-on message display (Battery-V/Full Screen/Other Characters)
29. Low voltage prompt
30. Begin/End transmitting prompt
31. Transmitting overtime prompt
32. Keypad lock (Auto / Manual)
33. Adding scanning channel
34. Programmable by computer
35. Wire-clone function
36. Menu/Channel reset
37. 1750Hz burst tone
38. IP55 waterproof

LCD Display

There are various indicators displaying on the screen when powering on. Please refer the below table to learn what the indicators stand for accordingly.



Note:

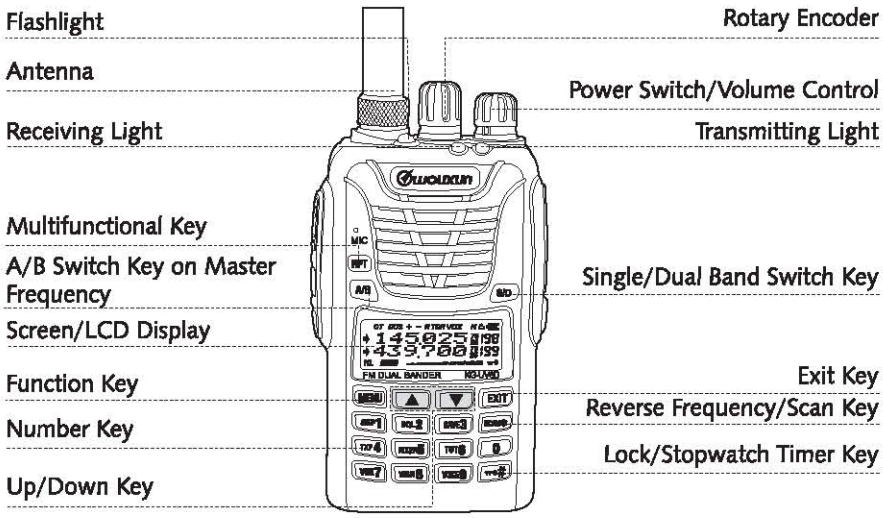
Full Battery Capacity Indicator

Exhausted Battery Capacity Indicator

Low Battery Capacity Indicator

Receiving signal meter

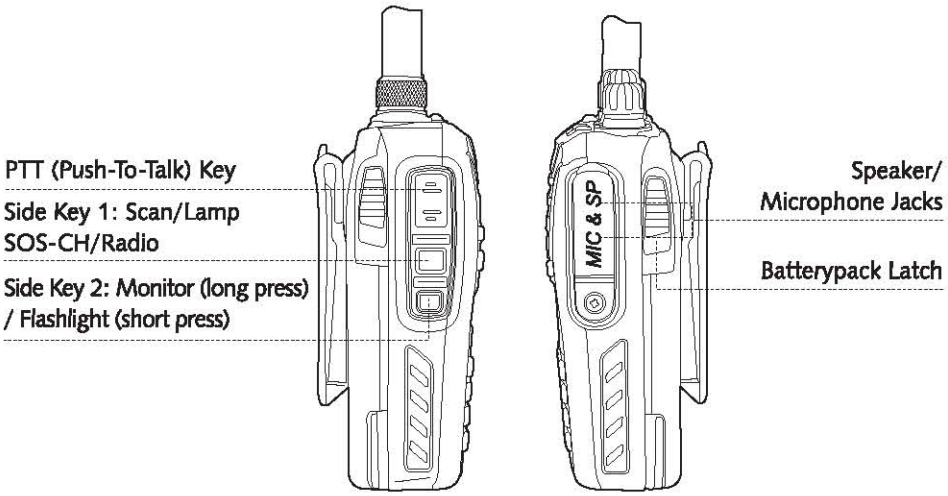
Description of Transceiver



Note: Quickly switch the working mode (MENU + S/D)

Quickly reboot the transceiver (MENU + A/B)

Getting Started



■ ***Quick Search***

Short Press ▲ or ▼ key to search the desired function/parameter during your setting, while long press to quick search.

■ ***Single/Dual Band Switch***

Press SD

Single Band ---------- Dual Band

■ ***Quick Reboot the Transceiver***

In standby, press MENU + MB , then LCD displays [STEP SURE?] . Press MENU to confirm, and then the transceiver re-starts.

■ ***Working Mode Switch***

In standby, press MENU + SD to switch between Channel/Memory and Frequency/VFO working mode.

■ ***A/B Switch Key on Master Frequency***

Press MB to select the master frequency. The frequency with arrowhead icon is the master frequency, while the other frequency without arrowhead icon is the sub frequency. The transceiver can transmit and receive in the master frequency, but ONLY receives in the sub frequency. When it is receiving in the sub frequency, there shows "S" on the screen.

Getting Started

■ SCAN Key

Short press the SCAN key to activate/inactivate the reverse frequency function, while keeping pressing for 2 seconds to active the scan function.

■ *Side Key 2 (Flashlight/Monitor selectable)*

Short press the side key to turn ON/OFF the flashlight, while keeping pressing for 2 seconds to activate the monitor function.

■ *RPT Multifunctional Key*

In standby, press RPT to activate the desired functions which are defined through the MENU 21, including FM Radio, Working mode switch, RPT(+/- offset, OFF, +/- R,R), Stopwatch timer, Lamp, SOS function, and OFF to undefine this key.

■ *1750Hz Burst Tone*

Sometimes, 1750Hz Burst tone is required to carry out some other specific functions. This transceiver has 1750Hz Burst tone to help you.

How to use

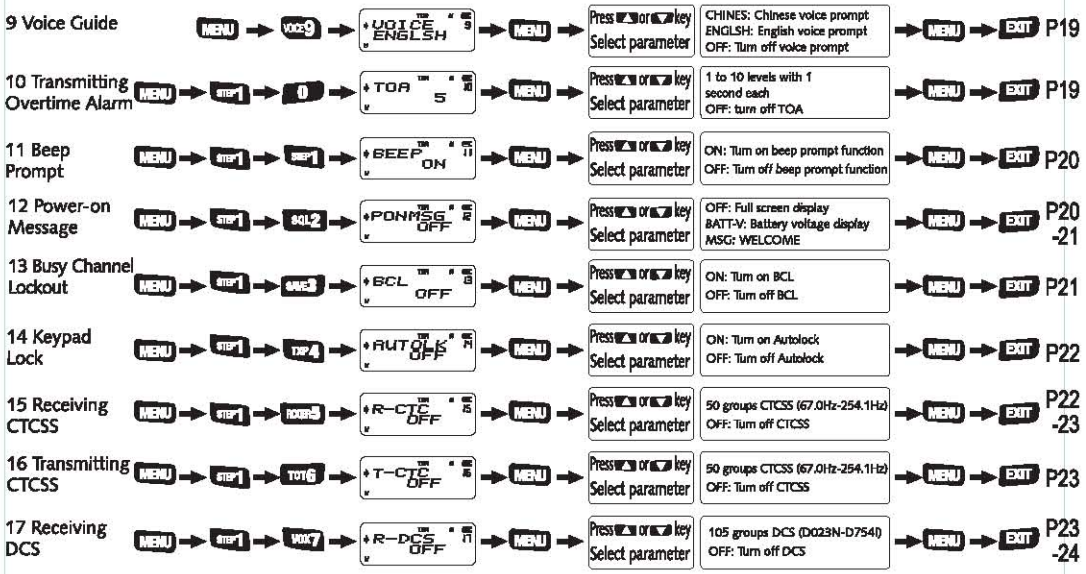
In standby, press PTT key and side key PF1 to transmit 1750Hz burst tone. The transmitting time depends on how long you press this combination keys, while releasing to stop transmitting the 1750Hz burst tone.

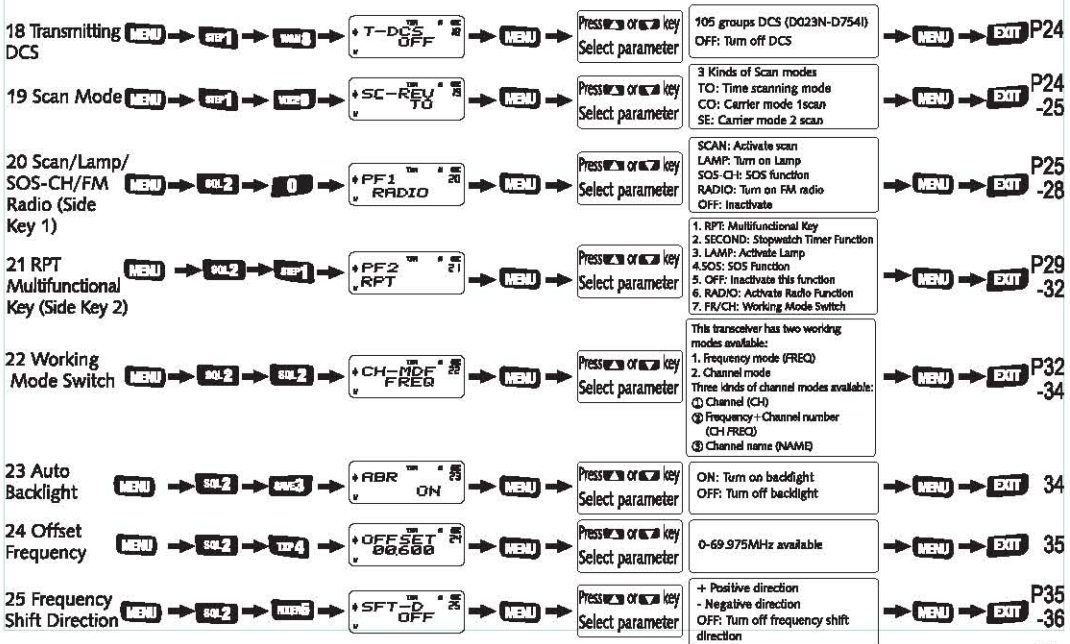
Shortcut Operation Sheet

Professional FM Transceiver

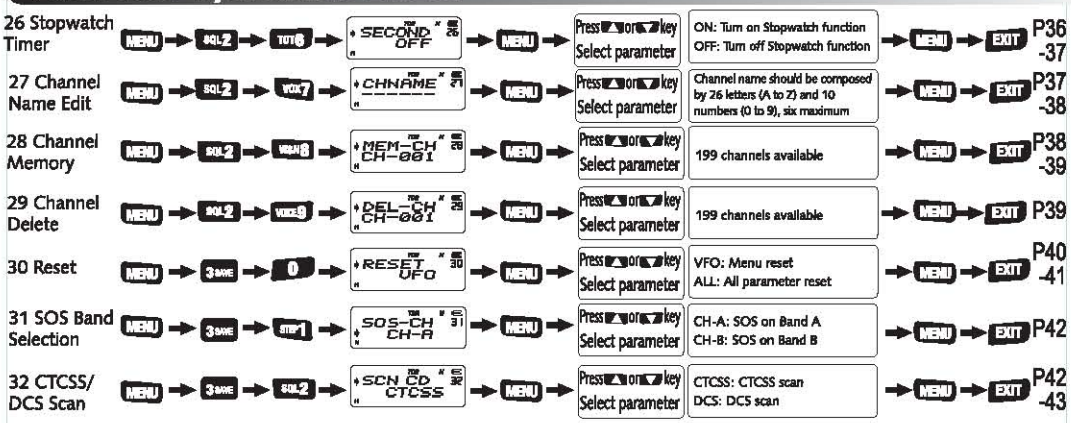
Function order	Function name	Enter function set	Screen display	Select parameter	Selectable parameter explanation	Confirm	Return to standby	See page
1	Step Frequency	MENU → STEP 1	STEP 12.50K	Press ▲/▼ key Select parameter	8 frequency steps available: 2.5k/5k/6.25k/10k/12.5k/ 50k/100k	→ MENU	→ EXIT	P14
2	Squelch Level	MENU → SQL 2	SQL-LE 5	Press ▲/▼ key Select parameter	Squelch level from 0 to 9	→ MENU	→ EXIT	P15
3	Power Saver Mode	MENU → SAVE 3	SAVE ON	Press ▲/▼ key Select parameter	ON: Turn on save function OFF: Turn off save function	→ MENU	→ EXIT	P15 -16
4	Transmitting Power Selection	MENU → TXP 4	TXP HIGH	Press ▲/▼ key Select parameter	H: High power (VHF 5W/UHF 4W) L: Low power (1W)	→ MENU	→ EXIT	P16
5	Begin/End Transmitting Prompt	MENU → ROGER 5	ROGER OFF	Press ▲/▼ key Select parameter	OFF: turn off this function,without any voice prompting. BOT: press PTT, voice prompt when begining transmitting EOT: release PTT, voice prompt when ending transmitting BOTH: press and release PTT,voice prompt	→ MENU	→ EXIT	P17
6	Time-out Timer	MENU → TOT 6	TOT 60	Press ▲/▼ key Select parameter	TOT has 40 levels in steps of 15 seconds. OFF: Turn off TOT	→ MENU	→ EXIT	P17
7	VOX	MENU → VOX 7	VOX OFF	Press ▲/▼ key Select parameter	VOX has levels from 1 to 10 OFF: Turn off VOX transmission	→ MENU	→ EXIT	P18
8	Bandwidth Selection	MENU → WN 8	WN WIDE	Press ▲/▼ key Select parameter	WIDE: 25KHz NARR: 12.5KHz	→ MENU	→ EXIT	P18

Shortcut Operation Sheet


9 Voice Guide
MENU → 9 → VOICE ENGLSH → MENU → Press ▲ or ▼ key Select parameter → CHINES: Chinese voice prompt ENGLSH: English voice prompt OFF: Turn off voice prompt → MENU → EXIT P19
10 Transmitting Overtime Alarm
MENU → STEP1 → 0 → TOA 5 → MENU → Press ▲ or ▼ key Select parameter → 1 to 10 levels with 1 second each OFF: turn off TOA → MENU → EXIT P19
11 Beep Prompt
MENU → STEP1 → STEP1 → BEEP ON → MENU → Press ▲ or ▼ key Select parameter → ON: Turn on beep prompt function OFF: Turn off beep prompt function → MENU → EXIT P20
12 Power-on Message
MENU → STEP1 → SQL2 → PONMSG OFF → MENU → Press ▲ or ▼ key Select parameter → OFF: Full screen display BATT-V: Battery voltage display MSG: WELCOME → MENU → EXIT P20 -21
13 Busy Channel Lockout
MENU → STEP1 → SAVE3 → BCL OFF → MENU → Press ▲ or ▼ key Select parameter → ON: Turn on BCL OFF: Turn off BCL → MENU → EXIT P21
14 Keypad Lock
MENU → STEP1 → TOT4 → AUTOLK OFF → MENU → Press ▲ or ▼ key Select parameter → ON: Turn on Autolock OFF: Turn off Autolock → MENU → EXIT P22
15 Receiving CTCSS
MENU → STEP1 → VOX5 → R-CTC OFF → MENU → Press ▲ or ▼ key Select parameter → 50 groups CTCSS (67.0Hz-254.1Hz) OFF: Turn off CTCSS → MENU → EXIT P22 -23
16 Transmitting CTCSS
MENU → STEP1 → TOT6 → T-CTC OFF → MENU → Press ▲ or ▼ key Select parameter → 50 groups CTCSS (67.0Hz-254.1Hz) OFF: Turn off CTCSS → MENU → EXIT P23
17 Receiving DCS
MENU → STEP1 → VOX7 → R-DCS OFF → MENU → Press ▲ or ▼ key Select parameter → 105 groups DCS (D023N-D754I) OFF: Turn off DCS → MENU → EXIT P23 -24


18 Transmitting DCS
MENU → STEP1 → SAVE3 → T-DCS OFF → MENU → Press ▲ or ▼ key Select parameter → 105 groups DCS (D023N-D754I) OFF: Turn off DCS → MENU → EXIT P24
19 Scan Mode
MENU → STEP1 → VOX5 → SC-REV TO → MENU → Press ▲ or ▼ key Select parameter → 3 Kinds of Scan modes TO: Time scanning mode CO: Carrier mode 1scan SE: Carrier mode 2 scan → MENU → EXIT P24 -25
20 Scan/Lamp/ SOS-CH/FM Radio (Side Key 1)
MENU → SQL2 → 0 → PF1 RADIO → MENU → Press ▲ or ▼ key Select parameter → SCAN: Activate scan LAMP: Turn on Lamp SOS-CH: SOS function RADIO: Turn on FM radio OFF: Inactivate → MENU → EXIT P25 -28
21 RPT Multifunctional Key (Side Key 2)
MENU → SQL2 → STEP1 → PF2 RPT → MENU → Press ▲ or ▼ key Select parameter → 1. RPT: Multifunctional Key 2. SECOND: Stopwatch Timer Function 3. LAMP: Activate Lamp 4.SOS: SOS Function 5. OFF: Inactivate this function 6. RADIO: Activate Radio Function 7. FR/CH: Working Mode Switch → MENU → EXIT P29 -32
22 Working Mode Switch
MENU → SQL2 → SQL2 → CH-MDF FREQ → MENU → Press ▲ or ▼ key Select parameter → This transceiver has two working modes available: 1. Frequency mode (FREQ) 2. Channel mode Three kinds of channel modes available: ① Channel (CH) ② Frequency+Channel number (CH.FREQ) ③ Channel name (NAME) → MENU → EXIT P32 -34
23 Auto Backlight
MENU → SQL2 → SAVE3 → ABR ON → MENU → Press ▲ or ▼ key Select parameter → ON: Turn on backlight OFF: Turn off backlight → MENU → EXIT 34
24 Offset Frequency
MENU → SQL2 → TOT4 → OFFSET 00000 → MENU → Press ▲ or ▼ key Select parameter → 0-69.975MHz available → MENU → EXIT 35
25 Frequency Shift Direction
MENU → SQL2 → KEY5 → SFT-D OFF → MENU → Press ▲ or ▼ key Select parameter → + Positive direction - Negative direction OFF: Turn off frequency shift direction → MENU → EXIT P35 -36

Shortcut Operation Sheet


26 Stopwatch Timer
MENU → SQL 2 → TOT 6 → SECOND OFF → MENU → Press ▲ or ▼ key Select parameter → ON: Turn on Stopwatch function OFF: Turn off Stopwatch function → MENU → EXIT P36 -37
27 Channel Name Edit
MENU → SQL 2 → VOX 7 → CHNAME → MENU → Press ▲ or ▼ key Select parameter → Channel name should be composed by 26 letters (A to Z) and 10 numbers (0 to 9), six maximum → MENU → EXIT P37 -38
28 Channel Memory
MENU → SQL 2 → VOX 8 → MEM-CH CH-001 → MENU → Press ▲ or ▼ key Select parameter → 199 channels available → MENU → EXIT P38 -39
29 Channel Delete
MENU → SQL 2 → VOX 9 → DEL-CH CH-001 → MENU → Press ▲ or ▼ key Select parameter → 199 channels available → MENU → EXIT P39
30 Reset
MENU → 3 SAVE → 0 → RESET VFO → MENU → Press ▲ or ▼ key Select parameter → VFO: Menu reset ALL: All parameter reset → MENU → EXIT P40 -41
31 SOS Band Selection
MENU → 3 SAVE → STEP 1 → SOS-CH CH-A → MENU → Press ▲ or ▼ key Select parameter → CH-A: SOS on Band A CH-B: SOS on Band B → MENU → EXIT P42
32 CTCSS/ DCS Scan
MENU → 3 SAVE → SQL 2 → SCN CD CTCSS → MENU → Press ▲ or ▼ key Select parameter → CTCSS: CTCSS scan DCS: DCS scan → MENU → EXIT P42 -43

- Quick Search ▲ / ▼ (See page 07)
- High/Low power changeable (See page 16)
- DTMF encoding (See page 44)
- Reverse frequency REVERSE (See page 46)
- Transmitting overtime prompt (See page 47)
- Wire-clone function (See page 48)
- Programming guide (See page 52)
- 1750Hz burst tone (See page 08)
- SOS-CH (SOS function) (See page 26)
- Priority scan function (See page 46)
- Low voltage prompt (See page 47)
- Adding scanning channel function (See page 47)
- Working with repeater (See page 48-51)

How to Operate

wouxun Professional FM Transceiver

Active/Inactive MENU Function

If you don't operate the transceiver frequently, you can inactivate the MENU function via matching software. Hereby follow the detailed setting method.

1. Set channel mode as the working mode.
2. Untick 'MENU AVAILABLE' in Channel Mode column.

If you want to operate menu function, you can switch to Frequency Mode, or put a tick before 'MENU Available' in Channel Mode column of the matching software.

NOTE ⚠

- In dual standby, the screen shows 'TDR'. The frequency with an arrowhead icon is the master frequency, while the other one is the sub frequency. When receiving in sub frequency, the screen shows 'S'. In dual standby, it can transmit/receive in master frequency but only receives in sub frequency.
- **Master Frequency Selection,** In standby, press A/B to select the desired master frequency.
- This transceiver is the dual bander, with dual frequency and dual display funcions.In frequency mode, it can display two different receiving/transmitting frequencies at the same time. In channel mode, it can also display the channel/frequency and related parameter in both channels at the same time.

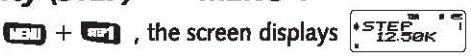
NOTE

» **In frequency/channel mode,** it is switchable between band A and band B by A/B key, When the A/B indicator shows in band A, all the operations are based on band A. While the indicator shows in band B, all the operations are based on band B.

» **In frequency mode,** it is available to seperately set the frequency step, transmitting power, squelch level, bandwidth, CTCSS, DCS, offset frequency, frequency shift direction and channel display modes in band A or band B.

» **In channel mode,** it is invalid to set frequency step, transmitting power, CTCSS, DCS, bandwidth, offset frequency, and frequency shift direction functions in band A and band B.

Step Frequency (STEP) ----- MENU 1

In standby, press MENU + 1 , the screen displays 

Press MENU to enter, it shows '12.50K', press ▲ / ▼ to select the desired step, then press MENU to confirm, finally press EXIT to return to standby.

The frequency steps selectable for this transceiver are as follows:

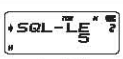
2.5KHz, 5.00KHz, 6.25KHz, 10.00KHz, 12.50KHz, 25.00KHz, 50.00KHz and 100KHz.

Squelch Level (SQL-LE) ----- MENU 2

Squelch level is about when the signal is strong enough to turn on the squelch function, and when it is weak enough to turn off. You may hear the voice from the loudspeaker when turning ON the squelch and receiving the same signal from other transceivers. Higher level makes it harder to receive the weak signals, while lower level will be interfered by noises and/or unwanted signals.

NOTE

» The squelch level for this transceiver has 0-9 levels selectable, and level 0 means turn off the squelch function. The higher level of the squelch is set, the stronger receiving signal is needed.

In standby, press MENU + 2 , the screen displays 

Press MENU to enter, it shows '5', press ▲ / ▼ to select the desired squelch level, then press MENU to confirm, finally press EXIT to return to standby.

Power Saver Mode (SAVE) --- MENU 3

When the power saver function is ON, the receiver circuit will be cut off for a moment, and then re-activate to detect the signals for a while, in order to reduce the battery capacity consumption.

How to Operate

In standby, press MENU + 3, the screen displays

Press MENU to enter, it shows 'ON', press ▲ / ▼ to select turn ON/OFF the power saver funtion.
Press MENU to confirm, and then press EXIT to return to standby.

Transmitting Power Selection (TXP) --- MENU 4

In frequency mode, press MENU + 4, the screen displays

Press MENU to enter, it shows 'HIGH', press ▲ / ▼ to select HIGH/LOW power, then press MENU to confirm, finally press EXIT to return to standby.

NOTE ⚠

» This transceiver has HIGH and LOW transmitting power selectable:
VHF: HIGH: 5W LOW:1W
UHF: HIGH: 4W LOW:1W

» The quick switch between the HIGH and LOW transmitting power is temporary. In transmitting mode, press SIDE key to quick switch the HIGH/LOW transmitting power. Once the transceiver is rebooted, the transmitting power reverts to the original output power.

Begin/End Transmitting Prompt (ROGER) --- MENU 5

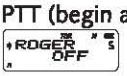
This function is to select the prompt modes when beginning/ending transmitting.

OFF: No voice prompt when beginning or ending of transmission.

BOT: Voice prompt when pressing PTT (beginning of transmission).

EOT: Voice prompt when releasing PTT (ending of transmission).

BOTH: Voice prompt when pressing and releasing PTT (begin and end of transmission).

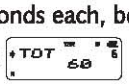
In standby, press MENU + MODE, the screen displays 

Press MENU to enter, it shows 'OFF', press ▲ / ▼ to select OFF/BOT/EOT/BOTH, then press MENU to confirm, finally press EXIT to return to standby.

Time-out Timer (TOT) --- MENU 6

This function is to prevent the transceiver from long time transmitting. When the transceiver is exceeding the preset time limit, it will stop transmitting with an overtime alarm.

This transceiver can be set in 40 levels with 15 seconds each, between 15 and 600 seconds.

In standby, press MENU + TOT, the screen displays 

Press MENU to enter, it shows '60', press ▲ / ▼ to select the desired transmitting level, then press MENU to confirm, finally press EXIT to return to standby.

How to Operate

VOX (VOX) --- MENU 7

This function means the transceiver will switch to the transmitting mode when detecting the voice singal. As the VOX circuit must check the existing signals, the transmitting will be a little delay, and the beginning transmission may not be transmitted completely.

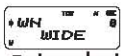
In standby, press MENU + 7 , the screen displays

Press MENU to enter, it shows 'OFF', press ▲ / ▼ to turn OFF VOX function or select VOX level (1-10), then press MENU to confirm, finally press EXIT to return to standby.

NOTE

» The higher level of VOX is set, the higher volume is needed.
» In SCAN and RADIO modes, the VOX function is not available.

Bandwidth Selection (WN) --- MENU 8

In standby, press MENU + 8 , the screen displays 

Press MENU to enter, it shows 'WIDE', press ▲ / ▼ to select WIDE/NARROW bandwidth, then press MENU to confirm, finally press EXIT to return to standby.

Voice Guide (VOICE) --- MENU 9

This transceiver has English (ENGLSH) and Chinese (CHINES) voice guide available.

In standby, press MENU + 9 , the screen displays

Press MENU to enter, press ▲ / ▼ to select Chinese, English or OFF , and then press MENU key to confirm, finally press EXIT to return to standby.

NOTE

» Turn off MENU 9 and MENU 11 at the same time to turn off all the voice prompt if required.

Transmitting Overtime Alarm (TOA) --- MENU 10

This TOA means the transceiver's transmitting light will flash and alarm 'OVER TIME' before the transmitting time reached the pre-set transmitting time (TOT).

This transceiver has 1-10 TOA level available, each level 1 second. E.g level 1 means the transceiver will alarm and transmitting light will flash before 1 second when the transmitting time reached pre-set TOT time.

In standby, press MENU + SHIFT 0 , the screen displays

Press MENU to enter, it shows '5', press ▲ / ▼ to select OFF/1~10 Level, then press MENU to confirm, finally press EXIT to return to standby.

How to Operate

Beep Prompt Function (BEEP) --- MENU 11

Beep prompt function means the transceiver will prompt if it is in confirmed, wrong or problematic operating.

In standby, press MENU + PF1 PF1 , the screen displays

Press MENU to enter, it shows 'ON', press ▲ / ▼ to turn ON/OFF the beep prompt function, then press MENU to confirm, finally press EXIT to return to standby.

NOTE

» When MENU 9 VOICE function and MENU 11 BEEP function are both on at the same time, the VOICE function is prioritized.

Power-on Message (PONMSG) --- MENU 12

This transceiver has 3 display modes selectable for the power on message as follows:

OFF: display the full screen

BATT-V: display the current battery voltage

MSG: display 'WELCOME' or other characters

In standby, press MENU + PF1 0#-2 , the screen displays

Press MENU to enter, it shows 'OFF', press ▲ / ▼ to select OFF/BATT-V/MSG, then press MENU to confirm, finally press EXIT to return to standby.

NOTE

» You can edit the desired Power-on Message via KG-UV6D programming software. It is compose of 6 digits max, including letters A to Z, numbers 0-9 and other characters.

Busy Channel Lockout (BCL) --- MENU 13

This function means to prevent the transceiver from interfering other communicating channels, if the selected channel is occupied, press PTT, the transceiver will alarm and cannot transmit.

In frequency mode, press MENU + PF1 *#-3 , the screen displays

Press MENU to enter, it shows 'OFF', press ▲ / ▼ to select ON/OFF this function, then press MENU to confirm, finally press EXIT to return to standby.

How to Operate

Keypad Lock (AUTOLK) --- MENU 14

This transceiver has automatic lock (AUTOLK) and manual lock selectable.

ON: Turn on automatic lock function. If no operation is conducted within 15 seconds, it will be locked automatically. Keep pressing [*#] longer than 2 seconds to unlock.

OFF: Turn off automatic lock function. If required, lock the keypad manually.

NOTE

» Manually Lock: In standby, keep pressing [*#] longer than 2 seconds to lock the transceiver, and press again to unlock.

In standby, press [MENU] + [1] [4], the screen displays

Press [MENU] to enter, it shows 'OFF', press [▲] / [▼] to select ON/OFF this function, then press [MENU] to confirm, finally press [EXIT] to return to standby.

Receiving CTCSS (R-CTCSS) --- MENU 15

Setting this funcion, you can communicate with the specific indivduals or groups and neglect the unwanted callings from other users who set the same frequencies with you. The transceivers can communicate ONLY after receiving the corresponding CTCSS/DCS tone.

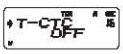
In frequency mode, press [MENU] + [1] [5], the screen displays

Press [MENU] to enter, it shows 'OFF', press [▲] / [▼] to turn OFF this function or select 67.0Hz to 254.1Hz CTCSS code, then press [MENU] to confirm, finally press [EXIT] to return to standby.

NOTE

» This transceiver has 50 groups CTCSS, see appendix (1) CTCSS frequency sheet.

Transmitting CTCSS (T-CTCSS) --- MENU 16

In standby, press [MENU] + [1] [0], the screen displays 

Press [MENU] to enter, it shows 'OFF', press [▲] / [▼] to turn OFF this function or select 67.0Hz to 254.1Hz CTCSS code, then press [MENU] to confirm, finally press [EXIT] to return to standby.

NOTE

» This transceiver has 50 groups CTCSS, see appendix (1) CTCSS frequency sheet.

Receiving DCS (R-DCS) --- MENU 17

In frequency mode, press [MENU] + [1] [7], the screen displays

Press [MENU] to enter, it shows 'OFF', press [▲] / [▼] to turn OFF this function or select D023N to D754I DCS code, then press [MENU] to confirm, finally press [EXIT] to return to standby.

NOTE

» This transceiver has 105 groups DCS, see appendix (2) DCS frequency sheet.
» In DCS selections, DXXXN (from D023N to D754N) means POSITIVE code, while DXXXI (from D023I to D754I) means NEGATIVE code.

Transmitting DCS (T-DCS) --- MENU 18

In standby , press MENU + PF1 9WXYZ , the screen displays

Press MENU to enter, it shows 'OFF', press ▲ / ▼ to turn OFF this function or select D023N to D754I DCS code, then press MENU to confirm, finally press EXIT to return to standby.

NOTE

» This transceiver has 105 groups DCS, see appendix (2) DCS frequency sheet.
» In DCS selections, DXXXN (from D023N to D754N) means POSITIVE code, while DXXXI (from D023I to D754I) means NEGATIVE code.

Scan Mode (SC-REV) --- MENU 19

TO: Scanning will go on if no poeration is conducted to the transceiver within 5 seconds after receiving signals.
CO: Scanning will stop when the transceiver received signals, and it will go on scanning after signals disappeared for 3 seconds.
SE: Scanning will stop when the transceiver received signals.

In standby, press MENU + PF1 9WXYZ , the screen displays

Press MENU to enter, it shows 'TO', press ▲ / ▼ to select TO/CO/SE scan mode, then press MENU to confirm, finally press EXIT to return to standby.

Scan/Lamp/SOS-CH/FM Radio on Side Key 1 (PF1) — MENU 20

There are four functions selectable on the side key 1 of this transceiver:

SCAN: Scan function **LAMP: Lamp function** **SOS-CH: SOS function**
RADIO: FM radio function **OFF: Disable this side key**

1. SCAN function:

In standby, press side key 1 to activate scanning (scan mode can be set through MENU 19 -Scan Mode Setting), while press any key to stop scanning.

In standby, press MENU + SQL 2 0 , the screen displays

Press MENU to enter, press ▲ / ▼ to select SCAN, then press MENU to confirm, finally press EXIT to return to standby.

2. LAMP function:

In standby, press side key 1 to turn on the Lamp, and press this key again to turn it off.

In standby, press MENU + SQL 2 0 , the screen displays

How to operate

Press MENU to enter, press ▲ / ▼ to select LAMP, then press MENU to confirm, finally press EXIT to return to standby.

3. SOS-CH (SOS function):

When you are in emergency circumstances, press side key 1 to transmit the 'wu wu...' SOS signals to the outside for help. Meanwhile, the transceiver will also sound 'wu wu...' with light flash. It will transmit the SOS signals every 5 minutes with 10 seconds each time. If the transceiver receives signals during the transmission of SOS, it will return to the receiving mode, after the signals disappeared, back to SOS transmitting function. Press any key to exit.

NOTE ⚠

» The transceiver will automatically set the SOS-CH in the master frequency even the SOS-CH you set is not the master frequency. You can press A/B to re-select the master frequency.

» You can set the SOS Band via MENU 31.

In standby, press MENU + 0, then screen displays

,
then press MENU to enter, press ▲ / ▼ to choose SOS-CH submenu, the screen displays

,
press ▲ / ▼ to choose Band A or Band B, then press MENU to confirm.
After the above setting, in standby, press side key 1 to activate SOS function.

4. RADIO function:

- **Turning on the FM radio:** In standby, press side key 1 to turn on. The screen displays

, and the green light flashes, it means the transceiver is searching the radio station, it will stop flashing after any signal is searched. Then you can listen to the radio.
- **Tuning the FM radio station:** In radio mode, press DWN , the radio keeps tuning the stations automatically and the green light flashing until it searched the available stations. You can press ▲/ ▼ to fine-tune the searched stations.
- **Storing radio station:** After detecting a radio station, press MENU , the screen displays

, you can press one of the number keys between 1 and 9 to save this radio station for your future use.

The transceiver has two groups of storages selectable for your storing, and the default group is the first storage.

E.g. If you want to store 88.1MHz into the 1st group Channel 8, In radio mode, when tuning the desired radio station, press MENU + 8 to store it into the 1st storage directly. If you want to store this frequency into the 2nd group Channel 8. In radio mode, when tuning the desired radio station, press A/B then the screen will display

. At this time, press MENU + 8 to store this station into the 2nd group Channel 8.

How to Operate

In radio mode, press 1 to 9 key to select the stored stations accordingly to listen, while use the # key to switch between 1st and 2nd storages.

- **Exiting from the radio mode:** Press Side key 1 again to exit from the radio mode.

NOTE

≫ When you are listening to radio, the current channels are still working (in standby). Once receiving the signals, it will return to the transceiver's communicating mode. After signals disappeared 5 seconds it will return to the Radio mode automatically.

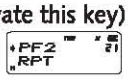
≫ In radio mode, you can press EXIT to check the current standby channel/frequency. Press PTT to transmit, after 5 seconds, it will go back to the Radio mode.

FM Radio/Working Mode/RPT/Stopwatch Timer/Lamp/Alarm (PF2) --- MENU 21

This RPT (PF2) key with 6 functions available.

1. RPT: Multifunctional Key

In standby, short press RPT to activate the corresponding functions circularly. These functions are +R (+ shift direction & reverse frequency), -R (- shift direction & reverse frequency), R (reverse frequency), + (+ shift direction), - (- shift direction), and OFF (inactivate this key).

In standby, press MENU + SQL-2 REP1 , the screen shows 

, press MENU to enter, then press ▲ / ▼ to select RPT, and then press MENU to confirm, press EXIT turn to standby mode.

Please refer to MENU 24/25 to set the Offset Frequency and Frequency Shift Direction functions.

NOTE

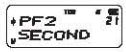
≫ This functions only available in Frequency mode. If the frequency range is out of the range of +R and -R, the Reverse function is invalid.

2. SECOND: Stopwatch Timer Function

In standby, short press RPT to activate the stopwatch timer function.

How to Operate

In standy, press MENU + SQL2 STEP1 , the screen shows

, press MENU to enter, then press ▲ / ▼ to select SECOND, the screen shows 

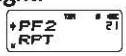
, press MENU to confirm, and then press EXIT to turn to standby mode.

NOTE

» If the RPT is defined as SECOND stopwatch timer function, please also set MENU 26 (Stopwatch Timer) to activate this function.

3. LAMP: Activate Lamp Function

In standby, short press RPT to turn ON/OFF the backlight.

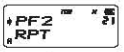
In standby, press MENU + SQL2 STEP1 , the screen shows 

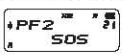
, press MENU to enter, then press ▲ / ▼ to select LAMP, the screen shows

, press MENU to confirm, and then press EXIT to turn to standby mode.

4. SOS: SOS Function

In standby, short press RPT to activate SOS function.

In standby, press MENU + SQL2 STEP1 , the screen shows 

, press MENU to enter, then press ▲ / ▼ to select SOS, the screen shows 

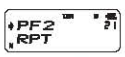
, press MENU to confirm, and then press EXIT to turn to standby mode.

NOTE

» If the RPT is defined as SOS function, please also set MENU 31 (SOS Band Selection) to activate this function.

5. OFF: Inactivate this Function

Turn OFF this RPT function.

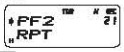
In standby, press MENU + SQL2 STEP1 , the screen shows 

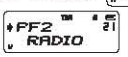
, press MENU to enter, then press ▲ / ▼ to select OFF, the screen shows

, press MENU to confirm, and then press EXIT to turn to standby mode.

6. RADIO: Activate FM Radio Function

In standby, short press RPT to activate FM radio function.

In standby, press MENU + SQL2 STEP1 , the screen shows 

, press MENU to enter, then press ▲ / ▼ to select RADIO, the screen shows 

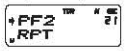
, press MENU to confirm, and then press EXIT to turn to standby mode.

NOTE

» If the RPT is defined as RADIO function, please also set MENU 20 (FM Radio Function on Side Key 1) to activate this function.

7. FR/CH: Working Mode Switch

In standby, short press RPT to speedily switch between Frequency and Channel mode.

In standby, press MENU + SQL-2 RPT1, the screen shows 

, press MENU to enter, then press ▲ / ▼ to select FR/CH, the screen shows

, press MENU to confirm, and then press EXIT to turn to standby mode.

NOTE

» If the RPT is defined as FR/CH function, please also set MENU 22 (Working Mode Switch) to activate this function.

Working Mode Switch (CH-MDF) --- MENU 22

This transceiver has two options for the working mode:

1. Frequency mode (FREQ)

2. Channel mode

There are three channel display selections in channel mode as follows:

①Channel (CH) ②Frequency + Channel number (CH FREQ) ③Channel name (NAME)

NOTE

» It is available to switch between the frequency mode and the channel mode manually or via the programming software. If you want, you can set the password for the mode switch.

» The password for the mode switch is ONLY available to set via KG-UV6D programming software.

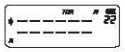
» The password is consist of 6 characters, while "000000" means no password needed for the mode switch.

Frequency mode (FREQ) and Channel mode switchable

① **Without password input**

In standby, press MENU + SQL-2 SQL-2, then press ▲ / ▼ to choose working mode and finally press MENU to confirm.

② **With password input**

In standby, press MENU + SQL-2 SQL-2, then press ▲ / ▼ to choose one of FREQ/NAME/CH/CHFREQ. Press MENU to confirm, then the screen displays 

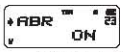
. Please input the preset password through the keypad, then the transceiver will switch to the selected mode.

NOTE

» Only it stored at least 1 Channel and/or Channel Name, then the transceiver can switch to Channel Number and/or Channel Name mode.

» Speedy switch between Frequency and Channel Mode:
In standby, press MENU + 3#C combination keys to switch the desired working mode. Input the password of mode switching if set.

Auto Backlight (ABR) --- MENU 23

In standby, press MENU + SQL 2 9 WXYZ 3, the screen displays 

Press MENU to enter, it shows 'ON', press ▲ / ▼ to turn ON/OFF auto backlight function, then press MENU to confirm, press EXIT return to standby.

NOTE

» This funcion is only activated when operating on the front case keypads and side key 1, but not on side key 2 and PTT key.

Offset Frequency (OFF-SET) --- MENU 24

Offset frequency means the difference between transmitting frequency and receiving frequency. The range of this transceiver is from 0 to 69.975MHz.

In standby, press MENU + SQL 2 TUV 8, the screen displays

Press MENU to enter, then press ▲ / ▼ to select the listed offset frequency, or manually input through keypad directly.Press MENU to confirm, then press EXIT return to standby.

Frequency Shift Direction (SFT-D) ---- MENU 25

There are three selections for the frequency shift direction setting:

1. Plus shift (+), which means that the transmitting frequency is higher than the receiving frequency.
2. Minus shift (-), which means that the transmitting frequency is lower than the receiving frequency.
3. Turn off this function.

In standby, press MENU + SQL 2 9 WXYZ 3, the screen displays

Press MENU to enter, press ▲ / ▼ to select +/-/OFF, then press MENU to confirm, finally press EXIT return to standby.

The Offset Frequency and Frequency Shift Direction functions will be only valid under Frequency mode. Please follow the below setting steps:

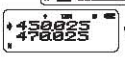
How to operate

1. Set the working mode to the frequency mode.
2. Set the frequency shift direction and offset frequency.

E.g.: In frequency mode, the transceiver needs to work on receiving frequency 450.025MHz and transmitting frequency 460.025MHz.

In Frequency mode, input [TDR] [ROGER] [0] [0] [SQL-2] [ROGER] then press [MENU] + [SQL-2] + [ROGER] + [MENU] to select positive direction (+), press [MENU] + [EXIT], then press [MENU] + [SQL-2] + [TDR] + [MENU] + [▲] / [▼] to choose 10.000+ [MENU] + [EXIT], so the frequency shift direction and offset frequency are set.

The screen displays , press PTT to transmit and the screen displays .

Release PTT the screen displays and it means receiving frequency is  while the transmitting frequency is .

Stopwatch Timer (SECOND) --- MENU 26

In standby, press [MENU] + [SQL-2] [TDR] , the screen displays

Press [MENU] to enter, it shows 'OFF', then press [▲] / [▼] to turn ON/OFF this function, press [MENU] to confirm, finally press [EXIT] to return to standby.

Using the stopwatch timer:

When this function is ON, press [*#] to start counting, while press any key to pause. Press [*#] again to re-start counting.

NOTE

» When it pauses counting, press any key,except [*#] and [RPT] (defined as Stopwatch function) to Exit the Stopwatch timer function.

Channel Name Edit (CHNAME) --- MENU 27

You should at least store one channel to the transceiver, and it must be under Channel mode, then you can edit the Channel Name.

1. Channel Name is composed by 26 letters (A~Z) and 10 numbers (0~9), 6 digits max. Press the [▲] key to choose letters then press the [▼] to select the editing place. The "-" symbol means that this digit is a blank.
2. Edit channel name via KG-UV6D programming software, or input via keypads manually.

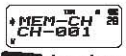
Editing Method

1. Set the transceiver in Channel Name display mode (see P32-34: Working Mode Switch).
2. Select the desired channel, press [MENU] + [SQL-2] + [VOX] + [MENU] , the sreen display 6 "-" bar, press the

▲ key to choose letters, then press the ▼ to edit the second digit. After finishing editing, press MENU to confirm, then press EXIT to exit. The screen displays the edited name, and the right corner shows the corresponding channel number.

Channel Memory (MEM-CH) --- MENU 28

In frequency mode and in standby, it is available to store the desired frequencies and relevant parameter into the specified channel.

Input the desired frequency, then press MENU + SQL 2 VOX 8 , the screen displays 

Press MENU to enter, press ▲ / ▼ to select the desired channel, then press MENU to store, with the voice prompt "receiving memory". Press EXIT to exit, this memory channel with same TX and RX frequency.

If you need to store the different TX and RX frequencies in the same channel, repeat the above operation with another frequency, then there is another voice prompt "transmitting memory".

E.g.: Store receiving frequency 450.025MHz and transmitting frequency 460.025MHz into CH-20.

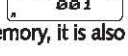
1. In frequency mode, input TXP 4 MODE 3 0 0 SQL 2 MODE 6 + MENU + SQL 2 WAN 8 + MENU , then press SQL 2 0 or ▲ / ▼ to select CH-20, press MENU to confirm, voice prompt for receiving memory, then press EXIT .

2. Input TXP 4 TWT 9 0 0 SQL 2 MODE 6 + MENU + SQL 2 WAN 8 + MENU + MENU , voice prompt for transmitting memory, then press EXIT .

The different TX and RX frequencies were stored to CH20 successfully now.

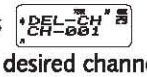
NOTE ⚠

- ≫ If required, the CTCSS/DCS tone should be set before storing the matching TX/RX frequencies to the channel.
- ≫ Transmitting memory only store the transmitting frequency.
- ≫ The empty channels can set both receiving and transmitting memory, otherwise only transmitting memory can be done. Delete the stored channels if you want to set receiving and transmitting memory in the same channel.
- ≫ When the memory channel you selected displays

, it means that this channel is not empty (stored before), while displays 

means that this channel is empty.
- ≫ Besides the manual memory, it is also available to do the memory channel via the matching programming software.

Channel Delete (DEL-CH) ------ MENU 29

In standby, press MENU + SQL 2 VOX 9 , the screen displays 

press MENU to enter, and press ▲ / ▼ to select the desired channel, then press MENU to confirm.

After the channel is deleted successfully, press EXIT to return to standby.

How to Operate

Reset ------ MENU 30

This transceiver has two selections for the reset operation-VFO reset and ALL reset.

VFO reset means that all the functional parameter set in frequency mode resume to the factory setting.

ALL reset means that all the functional parameter set in both frequency mode and channel mode resume to the factory setting.

1. VFO Reset

In standby, press MENU + 3 0 , the screen displays RESET VFO 30

press MENU to enter, and press ▲ / ▼ to select VFO, then press MENU , the screen displays RESET SURE? ,

press MENU again to confirm, and the screen displays RESET WAIT .

After this operation, the transceiver will be resumed automatically.

2. ALL Reset

In order to avoid the faulty operations, we suggest that you set the password for the ALL Reset via KG-UV6D programming software. Only input the valid password, the transceiver can be reset to the factory setting completely. Pls see the password setting in the programming software, which is consist of six arabic numerals selectable from 0 to 9.

When the password is "000000", it means no password needed to input for this operation.

(1) Setting password as "000000"

In standby, press MENU + 3 0 , the screen displays RESET VFO 30

press MENU to enter, and press ▲ / ▼ to select ALL, press MENU , the screen displays RESET SURE ,

then press MENU again to confirm, the screen displays RESET WAIT .

When the reset is done, the transceiver will be resumed automatically.

(2) Setting password as "XXXXXX" (E.g.:123456)

In standby, press MENU + 3 0 , the screen displays RESET VFO 30

press MENU to enter, and press ▲ / ▼ to select ALL, press MENU , the screen will displays RESET _ 30 , at this time input the valid password (e.g.:123456), the screen displays RESET WAIT ,

then the transceiver will start resetting. After reset is done, the transceiver will be resumed automatically.

How to Operate

SOS Band Selection (SOS-CH) --- MENU 31

This function can set which band to transmit the SOS signals.

In standby, press MENU + 2 RPT , the screen shows

, press MENU to enter, then press ▲ / ▼ to select CH-A or CH-B, press MENU to confirm, and then press EXIT to turn to standby mode.

NOTE

» To activate the SOS function, please also set MENU 20 (SOS Function on Side Key 1) or MENU 21 (SOS Function on RPT Multifunctional Key).

CTCSS/DCS Scan ------ MENU 32

This function can scan all transmitters CTCSS/DCS tones. If your CTCSS/DCS is different from the other members in your group, you can detect these different tones.

When the transceiver is in receiving mode, press MENU + 3 SQL , the screen displays

.

Press MENU to enter, the arrowhead points to "CTCSS". Press ▲ / ▼ to select CTCSS or DCS scan.

And then press MENU to confirm, it starts scanning CTCSS/DCS frequencies.

NOTE

» This function only works in frequency mode.

» Only when the transceiver detects the CTCSS/DCS signals from outside, this function works.

» Press ▲ / ▼ or rotate the Rotary Encoder to change ascending or descending scanning.

» When the transceiver scans CTCSS/DCS frequency, it stops at this frequency. You can press MENU to temporarily replace this frequency as the current standby frequency. If you want to directly set this scanned frequency to be current working frequency, please enter into MENU 15/16 (CTCSS) or MENU 17/18 (DCS) to save separately. Or it will be reset to the original setting before the next scanning.

» Only the band with the arrowhead and detecting the signal can activate the CTCSS/DCS scanning.

How to Operate

DTMF Encoding

MENU , ▲ , ▼ , EXIT keys are respectively corresponding to A, B, C, D at DTMF encoding setting.

Please follow the below steps to activate DTMF manually:

1. Hold on pressing PTT key to transmit.
2. At the same time, press the keys on the keyboard to send out the DTMF tone.

NOTE ⚠

» This transceiver will monitor the transmission of corresponding DTMF tone.

ANI ID Code Edit/Transmit/Transmitting Delay Time & DTME Sidetone

NOTE ⚠

» The above functions in this transceiver only can be edited by our programming software.

Editing ANI ID Code

ANI ID Code can be made up of alphanum (A~D and 0~9) with 6 digits max.

Transmitting ANI ID Code

Turn this function ON means when press PTT key, the ANI ID Code will be transmitted automatically, while turning OFF means manual transmitting.

ANI ID Code Transmitting Delay

This means the delay time of transmitting ANI ID after pressing the PTT key to communicate.

This delay time can be set 3 seconds max, total 30 levels with 100ms each.

DTMF Sidetone

DTMF sidetone means to turn ON/OFF the speaker when transmitting DTMF code, and get the corresponding DTMF tone.

There are 4 options on setting sidetone:

① Keypad Sidetone: Press keypad to turn on sidetone when transmitting.

② ANI-ID Code Sidetone: Transmit ANI ID Code to turn on sidetone.

③ key Sidetone+ANI-ID Sidetone: Pressing number key or transmit ANI ID Code can turn on sidetone when transmitting.

④ OFF: In encoding mode, all sidetones are off.

Priority Scan

If you want to monitor the other frequency and check the certain preferred frequency at the same time, you can set priority scan function.

E.g.: Scan six channels: Set CH1, CH2, CH3, CH4 and CH5 as the common scanned channels, and CH6 as the priority scanned channel. then the scanning order is as followings:

→CH1→CH6→CH2→CH6→CH3→CH6→CH4→CH6→CH5→CH6

When this transceiver detects signal on the priority channel during scanning,it will on its frequency.

Please program the priority channel via KG-UV6D programming software.

Reverse Frequency

When using the reverse frequency function, the transmitting and receiving frequencies of this transceiver will be interchanged together with all settings for CTCSS/DCS and DTMF setting.

How to set the reverse frequency:

In standby, press [DWN] to activate this funciton, while press [DWN] again to switch it off.

Channel Mode Operation

1. Activate/Inactivate Menu function
2. Activate/Inactivate Reset function

Please program above operations via Wouxun KG-UV6D programming software.

Low Voltage Prompt

When the batterypack is in low voltage, there will be voice prompt for the lower voltage, at this time, the backlight flashes every five seconds and the transceiver sounds out "click" to remind of being charged timely.

Transmitting Overtime Prompt

When the transmitting time is exceeding the preset time, there will be an alarm to remind of the overtime transmitting, and the transmitting will be paused, if you want to continue transmitting, please press PTT to resume transmitting. (Please see MENU15 about the Time-out timer TOT)

Adding Scanning Channel

NOTE ⚠

» Only the added scanning channel can be listed to scan.

» Editing method: Strictly via KG-UV6D programming software.

How to Operate

Wire-clone Function

1. Well install the battery into the source radio and the target radio, and then well connect the wire-clone cable of these two radios.
2. Turn ON the target radio.
3. Press the MONI key of the source radio meanwhile turn ON.
4. The RED light of source radio flashing, it means start copying the data.
5. The GREEN light of target radio flashing, it means start receiving the data.
6. After finishing copying, the RED and GREEN light of these two radios went off, and then return to the standby mode.

Working with Repeater

This series of transceiver is available to work with repeater both in Frequency mode and Channel mode, which is programmable through the key board and via the programming software.

Please refer to the following steps about manual programming the channels to work with the Repeater.

a. Set the transceiver work in the Frequency/VFO mode. (If the radio works in channel mode, please press MENU + A/B key to switch to frequency mode.)

b. Input the Receive frequency through the keyboard. (The Receive frequency of this transceiver is the Transmit frequency of Repeater.)

c. Set the related parameter you need for this frequency, like MENU 15-18 CTCSS/DCS, MENU23 Offset frequency, MENU 24 Shift frequency direction and others.

d. Memorize this frequency and the parameter into the specified channel by MENU 27.

e. Repeating above settings to set the Transmitting Memory.

NOTE ⚠

≫ After setting the Offset frequency and the Shift frequency direction of receiving memory, you don't need to memorize the Transmit frequency

After above, the settings to work with repeater are successful.

Switch the working mode to Channel mode, call out this specified channel you have memorized, the transceiver can join in the Repeater.

For example, the Receive frequency of Repeater is 442.850MHz, the Offset frequency is 5.00MHz, the Shift frequency direction is "-", the T-CTCSS is 103.5Hz, the specified channel CH-20. Please see the steps as following:

a. Power on the transceiver, and set it to work in Frenquecy mode.

b. Press MENU + SHIFT + MENU to set the Frequency step, and then press MENU to confirm, finally press EXIT to return to standby.

How to Operate

c. Input the frequency 447850 through the keyboard, and program followings:

» Press MENU + 0 + TXP4 + MENU to select the desired power, and then press MENU to confirm, finally press EXIT to return to standby. (Please refer to MENU 4 on Page 16)

» Press MENU + STEP1 + TONE8 + MENU to select the desired CTCSS code 103.5Hz, and then press MENU to confirm, finally press EXIT to return to standby. (Please refer to MENU 16 on Page 23)

» Press MENU + SQL2 + TXP4 + MENU to select the desired offset frequency 5.00MHz, and then press MENU to confirm, finally press EXIT to return to standby. (Please refer to MENU 24 on Page 35)

» Press MENU + SQL2 + ROGER + MENU to select the desired direction "-", and then press MENU to confirm, finally press EXIT to return to standby, (Please refer to MENU 25 on Page 35-36)

» Press MENU + SQL2 + VFO/M + MENU to Memory channel, Press ▲ / ▼ key, rotate the channel encoder, or directly input 2+0 through the keyboard to select the specified channel CH-20, and then press MENU to confirm, there is voice prompt "Receiving memory" (if the Voice guide is ON.). Finally press EXIT to return to standby. (Please refer to MENU 28 on Page 38-39)

After above, the settings for memory channel to work with the repeater is done.

If required editing the repeater's channel name, please press MENU + SCD to switch the working mode to Channel mode. Select the specified channel CH-20, and press MENU + SQL2 + SQL2 + MENU to select

channel NAME displaying mode, press MENU to confirm, press EXIT to return to standby. Then press MENU + SQL2 + VOX7 + MENU to edit the channel name. After finishing editing, press MENU to confirm, then finally press EXIT to return to standby. (Please refer to MENU 22 on Page 32-34 and MENU 27 on Page 37-38)

How to Use the Intelligent Charger

1. Insert the AC plug into the power grid socket (AC:90-240V), the indicator on the charger flashes, then the charger is in the charging standby mode.
2. Insert the battery into the charger the RED LED is on ,which means that charging is on the progress. It will turn to GREEN when fully charged.

NOTE ⚠

» When inserting the exhausted battery into the charger, it will pre-charge the battery in trickling mode, the RED light of charger flashes and lasts 10-20 minutes, then start normal charging with RED light keeping on, it will turn to GREEN when is fully charged.

» Trickling charge the exhausted battery is to protect the Lithium-ion battery.

How to Operate

Programming Guide

1. Download, unzip and install the USB driver according to different PC operating system.
2. Restart the computer, it shows that the driver is installed successfully.
3. Download and unzip the corresponding programming software.
4. Well connected the transceiver and computer with USB cable, then power on the transceiver.
5. Read from the transceiver to check the connection.
6. Set the desired data on the software, then write to the transceiver.

NOTE ⚠

- » The USB driver of Windows XP / 2000 and Windows 7 & Vista is not compatible, please download the matching drivers according to your PC system.
- » If 'Failed Connection' displays when reading from the transceiver, please re-check the first four steps as well as the communication ports.
- » Please note, once well done the first three steps, the com port will be selected automatically. However, as the different computer settings, sometimes you should re-set the com port, in this case, please select the correct com port from the device manager according to the port assignment.
- » If the connection is still failed, try to use another cable or another transceiver on another computer to double check.
- » For more details, kindly contact your nearest dealer.

Trouble Shooting

Before confirmed the transceiver with real problems, kindly check the possible problems according to the following chart. If the problems come out all the time. Please RESET the transceiver, it will solve some incorrect operations. And, try to get some help from the experienced technician or contact your supplier.

Problem	Solution
The transceiver can not be powered on.	1. The battery may be exhausted, please change the new battery or re-charge it. 2. The battery was not installed correctly, pls re-install.
The battery life is too short to use.	1. The battery life is over, please change a new battery. 2. The battery is not fully charged .
The receiving light keeps flashing, but there is no sound coming out.	1. Make sure that the volume is the highest. 2. Make sure that the CTCSS/DCS settings are the same as the transmitting transceiver.
It seems that the keyboard does not work.	1. Make sure that the keypad is locked or not. 2. Make sure that the keys are not stuck.

Trouble Shooting

Problem	Solution
In standby, the transceiver will transmit automatically even the PTT key is not pressed.	Make sure VOX function is ON or not, and its level is set too low or not.
Some functions can not be stored normally.	Please confirm if the transceiver is working in channel mode, since some functions are ONLY set in channel mode via programming software.
There are other disturbed signals or noice(from other groups) in the channel.	Please change the CTCSS/DCS frequencies set in your group.

Technical Parameter

Appendix 1

CTCSS

1	67.0	11	94.8	21	131.8	31	171.3	41	203.5
2	69.3	12	97.4	22	136.5	32	173.8	42	206.5
3	71.9	13	100.0	23	141.3	33	177.3	43	210.7
4	74.4	14	103.5	24	146.2	34	179.9	44	218.1
5	77.0	15	107.2	25	151.4	35	183.5	45	225.7
6	79.7	16	110.9	26	156.7	36	186.2	46	229.1
7	82.5	17	114.8	27	159.8	37	189.9	47	233.6
8	85.4	18	118.8	28	162.2	38	192.8	48	241.8
9	88.5	19	123.0	29	165.5	39	196.6	49	250.3
10	91.5	20	127.3	30	167.9	40	199.5	50	254.1

Appendix 2

DCS

1	D023N	16	D074N	31	D165N	46	D261N	61	D356N
2	D025N	17	D114N	32	D172N	47	D263N	62	D364N
3	D026N	18	D115N	33	D174N	48	D265N	63	D365N
4	D031N	19	D116N	34	D205N	49	D266N	64	D371N
5	D032N	20	D122N	35	D212N	50	D271N	65	D411N
6	D036N	21	D125N	36	D223N	51	D274N	66	D412N
7	D043N	22	D131N	37	D225N	52	D306N	67	D413N
8	D047N	23	D132N	38	D226N	53	D311N	68	D423N
9	D051N	24	D134N	39	D243N	54	D315N	69	D431N
10	D053N	25	D143N	40	D244N	55	D325N	70	D432N
11	D054N	26	D145N	41	D245N	56	D331N	71	D445N
12	D065N	27	D152N	42	D246N	57	D332N	72	D446N
13	D071N	28	D155N	43	D251N	58	D343N	73	D452N
14	D072N	29	D156N	44	D252N	59	D346N	74	D454N
15	D073N	30	D162N	45	D255N	60	D351N	75	D455N

DCS

76	D462N	82	D516N	88	D606N	94	D645N	100	D723N
77	D464N	83	D523N	89	D612N	95	D654N	101	D731N
78	D465N	84	D526N	90	D624N	96	D662N	102	D732N
79	D466N	85	D532N	91	D627N	97	D664N	103	D734N
80	D503N	86	D546N	92	D631N	98	D703N	104	D743N
81	D506N	87	D565N	93	D632N	99	D712N	105	D754N

Technical Specification

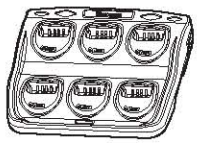
Frequency Range (can be suitable for different countries or areas):	76-108 MHz (Rx) 136-174MHz & 216-280MHz (Rx / Tx), 136-174MHz & 350-470MHz (Rx / Tx), 136-174MHz & 400-480MHz (Rx / Tx), 136-174MHz & 420-520MHz (Rx / Tx), 144-146MHz & 430-440MHz (Rx / Tx), 144-148MHz & 222-225MHz (Rx / Tx), 66-88MHz & 136-174MHz (Rx / Tx), 66-88MHz & 400-480MHz (Rx / Tx)
Memory channel	199 channels
Operating Voltage	7.4V
Operating Temperature	-30℃ to + 60℃
Working Mode	Co-channel or Dis-channel simplex
Output Power	VHF: 5W / UHF:4W
Modulation	F3E(FM)
Max. Frequency Deviation	< ±5KHz
Spurious Radiation	< -60dB
Frequency Stability	±2.5 ppm
Receive Sensitivity	< 0.2 μV
Audio Output power	> 500mW
Waterproof	IP55
Dimension	65 X 119 X 39.5 (mm)
Weight	253g

NOTE ⚠

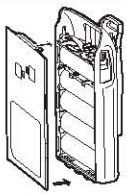
» Specifications are subject to be updated without prior notice.

Optional Accessories

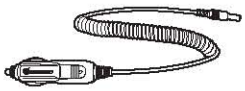
Professional FM Transceiver

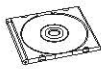

Six-way charger

1300mAh Li-ion batterypack

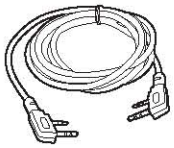

"AA" batterypack

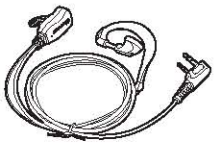
Eliminator


Car charger

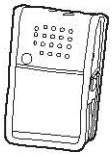

Programming software

USB programming cable


Wireclone cable


Headset

Speaker/Mic


Leather case

(SL16) (BNC)
Antenna adapter

Announcement

Wouxun endeavors to achieve the accuracy and completeness of this manual, but it is still not perfect for any possible omissions or printing errors. All the above is subject to be updated without prior notice.

English Version: KG-UV6D-1108-V1

DECLARATION OF CONFORMITY

We, Quanzhou Wouxun Electronics Co.,Ltd,
No.928 Nanhuan Road,Jiangnan High Technology Industry Park,Quanzhou,
Fujian 362000,China,

declare that our product:

Product Description: Two-way Radio
Brand: WOUXUN
Model: KG-UV6D

is in compliance with the essential requirements and other relevant provisions of the R&TTE directive 1999/5/EC and carries the CE mark accordingly.
Supplementary information:
The product complies with the requirements of:

Low Voltage Directive 2006/95/EC
-EN 60950-1: 2006+A11:2009+A1:2010

Efficient use of frequency spectrum
-ETSI EN 301783-1 V1.1.1(2008-09)
-ETSI EN 301783-2 V1.1.1 (2008-09)

EMC Directive 2004/108/EC
-ETSI EN 301 489-1 V1.8.1 (2008-04)
-ETSI EN 301 489-15 V1.2.1 (2002-08)

Date: June 16, 2010
Place: Quanzhou,Fujian,China
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